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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/537,232

05/31/2005

Tomiharu Okita

05677/0202806-US0

6388

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7590

03/25/2008

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EXAMINER

KIRKSEY, DONTE R

ART UNIT

PAPER NUMBER

4193

MAIL DATE

DELIVERY MODE

03/25/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/537,232	Applicant(s) OKITA ET AL.	
	Examiner DANTE KIRKSEY	Art Unit 4193	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 May 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05/31/2205 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>07/14/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Griffin (USP 6,447,071).

With respect to claim 1, fig 1 of Griffin teaches a method of manufacturing a full face vehicle wheel including:

providing a wheel rim (14) with one opening brim (see top edge of 48) thereof formed to be a flange portion (54) while the other opening brim (see top edge of 50) to be a peripheral joining end (see outer edge of 52); and

providing a wheel disk (12) with the periphery (see outer edge of 24) thereof formed to be a flange portion (24) for supporting a tire bead sidewise (the tire bead resides in bead seat 26; see col2, lines 49-52), with said peripheral joining end (see outer edge of 24) welded (at 70, see Griffin, Col 1, Lines 45-46) to the back surface (see Griffin, Col 1, Lines 61-65 and Figs 1-2) of said wheel disk (12)

providing the back surface (see Griffin, Col 1, Lines 61-65 and Figs 1-2) of the wheel disk (12) in advance with an annular joining groove (36) to;

providing the peripheral joining end (at the margin of; around the edge of, see outer edge of 14) of the wheel rim (14) in advance with an inside slope end surface (64);

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seating and positioning said peripheral joining end on the bottom surface of the annular joining groove (36, Figs 3-5); producing a welding heat confining annular (region 38, see welding, Griffin, Col 1, Lines 45-46) between the inside groove wall (42) of the annular joining groove (36, Figs 3-5) and the inside slope end surface (64) by placing the inside edge of the inside slope end surface (64) in contact with or near said inside groove wall (42); and joining the annular joining groove (36) and the peripheral joining end (see outer edge of 14) by welding, (see Griffin, Col 1, Lines 45-46) so that the wheel disk (12) and the wheel rim (14) are joined.

With respect to claim 2, fig 2 of Griffin teaches the inside slope end surface (64) formed at the peripheral joining end of the wheel rim (14) has a slope angle (see Griffin, claim 2) within a range greater than about three degrees and not greater than about 60 degrees relative to the bottom surface (40) of the annular joining groove (36).

With respect to claim 4, fig 1 of Griffin teaches a forming the outside groove wall (see outer wall 40 of 36) of the annular joining groove (36) to tilt outward by an angle (see Griffin, Claim 11) within a range greater than about 40 degrees and not greater than about 90 degrees (see Griffin, Claim 11) relative to the bottom surface (42) of the annular joining groove (36).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Griffin (USP 6,447,071) in view of Hasegawa (USP 5,417,476).

With respect to claim 3, fig 1 of Griffin teaches forming the inside slope end surface (64) of the peripheral joining of the wheel rim (14).

Giffin does not teach bending the opening brim where said peripheral joining end is formed toward the inside of the wheel rim. Hasegawa teaches bending the opening brim (see Hasegaw 17, Fig 2, and Col 2, Lines 37-40). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Griffin reference by bending the opening brim as taught by Hasegawa where said peripheral joining end is formed toward the inside of the wheel rim for the purpose of forming the desired inside slope end surface of the peripheral joining end of the wheel.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tanaka et al. (USP 6,869,149) teach a vehicle wheel and method of manufacturing same with heat welding.

Grassi et al. (USP 6,138,355) teach a vehicle wheel and method of manufacturing same with an annular portion, rim and welding.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONTE KIRKSEY whose telephone number is (571)270-3792. The examiner can normally be reached on 8 a.m to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Nguyen can be reached on 5712721753. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Drk

/Long Nguyen/
Supervisory Patent Examiner
Art Unit 4193